



# TRANSMITTAL FORM

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Total Number of Pages in This Submission

Application Number	09/887,997
Filing Date	June 22, 2001
First Named Inventor	Quake, Stephen R.
Art Unit	1765
Examiner Name	Robert M. Kunemund
Attorney Docket Number	20174C-004900US

## ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) <i>(please identify below):</i>
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	1. Return Postcard; and
<input checked="" type="checkbox"/> Supplemental Information Disclosure Statement (2 pgs) w/attached PTO/SB/08B (1 pg); (citing refs 1-12)	<input type="checkbox"/> CD, Number of CD(s)	2. A copy of each of 12 cited references
<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	* Note: Reference not included in the total number of pages above.	

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual	Townsend and Townsend and Crew LLP	
	Kent J. Tobin	
Signature		
Date	June 9, 2004	

## CERTIFICATE OF TRANSMISSION/MAILING

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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**PATENT**  
Attorney Docket No.: 20174C-004900US  
Client Reference No.: CIT No.: 3484



TOWNSEND and TOWNSEND and CREW LLP

*Edward Masinas*

Edward Masinas

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Quake et al.

Application No.: 09/887,997

Filed: June 22, 2001

For: HIGH THROUGHPUT  
SCREENING OF CRYSTALLIZATION  
OF MATERIALS

Examiner: Robert M. Kunemund

Art Unit: 1765

**SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT UNDER 37  
CFR §1.97 and §1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

06/21/2004 ZJUHAR1 00000070 201430 09887997  
01 FC:1806 180.00 DA

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				Application Number	09/887,997
(use as many sheets as necessary)				Filing Date	June 22, 2001
				First Named Inventor	Quake, Stephen R.
				Art Unit	1765
				Examiner Name	Robert M. Kunemund
				Attorney Docket Number	20174C-004900US
Sheet 1 of 1					

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	1	CARTER et al., Protein Crystallization Using Incomplete Factorial Experiments, the Journal of Biological Chemistry, 1979, pp. 12219-12223, Vol. 254, No. 23.	
	2	CARTER et al., Statistical Design of Experiments for Protein Crystal Growth and the Use of a Precrystallization Assay, Journal of Crystal Growth 90, 1998, pp. 60-73.	
	3	JARAMILLO et al., Crystallization and Cryocrystallography inside X-ray capillaries, J. Appl. Cryst. (2001). 34, pp. 365-370.	
	4	KAMHOLZ et al., Quantitative Analysis of Molecular Interaction in a Microfluidic Channel: The T-Sensor, Analytical Chemistry, Vol. 71, No. 23, December 1, 1999, pp. 5340-5347.	
	5	LIN et al., Convective-diffusive transport in protein crystal growth, Journal of Crystal Growth, 151 (1995), pp. 153-162.	
	6	LUFT et al., Kinetic Aspects of Macromolecular Crystallization, Methods in Enzymology, 1997, pp. 110-130, Vol. 276.	
	7	MILLER et al., A Comparison between Protein Crystals Grown with Vapor Diffusion Methods in Microgravity and Protein Crystals using a Gel Liquid-liquid diffusion Ground-Based Method, Journal of Crystal Growth 132 (1992), pp. 306-309	
	8	NERAD et al., Ground-Based Experiments on the Minimization of Convection During the Growth of Crystals From Solution, Journal of Crystal Growth, 1986, pp. 591-608, Vol. 75.	
	9	RUIZ et al., Agarose as Crystallization Media for Proteins I: Transport Processes, Journal of Crystal Growth, 2001, pp. 165-172, Vol. 232.	
	10	RUIZ et al., Investigations on Protein Crystal Growth by the Gel Acupuncture Method, Acta Crystallographica, 1994, pp. 484-490, Section D.	
	11	SALEMME, A Free Interface Diffusion Technique for the Crystallization of Proteins for X-Ray Crystallography, Archives of Biochemistry and Biophysics, 1972, pp. 533-539, Vol. 151.	
	12	THOMAS et al., Distribution coefficients of Protein Impurities in Ferritin and Lysozyme Crystals Self-Purification in Microgravity, Journal of Crystal Growth 211 (2000), pp. 149-156.	

Examiner Signature		Date Considered	
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.